UTAH DIVISION OF OIL, GAS AND MINING FILE_X_ WATER SANDS_ LOCATION INSPICTED _ SUB. REPORT/ABD ELECTRIC LOGS... DATE FILED 9 - 26 - 79PUBLIC LEASE NO. U-17049 INDIAN LAND: FEE & PATENTED STATE LEASE NO. 9-24-79 DRILLING APPROVED: SPUDDED IN: COMPLETED: PUT TO PRODUCING: INITIAL PRODUCTION: GRAVITY A.P.I. GOR: PRODUCING ZONES: TOTAL DEPTH: WELL ELEVATION: ocation Abandoned Well Never Brilled 4-2-81 DATE ABANDONED: FIELD: Wildcat UNIT: county: Grand WELL NO. East Cisco Federal 1-2 API NO: 43-019-30548 SW SE 1/4 - 1/4 SEC. 1112' FT. FROM XXXX (S) LINE. 1530' FT. FROM (E) (XXX LINE. LOCATION

TWP.

RGE.

SEC.

OPERATOR

TWP. RGE. SEC. OPERATOR

20S 23E 1 BURTON/HAWKS, INC. MADEX

FI

FILE NOTATIONS					
Entered in NID File ocation Map Pinned ard Indexed	••••••	Checked by Chief Approval Letter Disapproval Letter			
COMPLETION DATA:					
ite Well Completed	• • • • • • •	Location Inspected	******		
TTA		State or Fee Land			
.и OS PA					
	Logs w	TLED			
Driller's Log	• • • •				
Electric Logs (No.)					
E I	Dual I Lat	GR-N Micro			
BHC Sonic GR	. Lat	Mi-L Sonic	• •		
CBLog CCLog	Othe	E8.,			

dje

X = Section Corners Located

BURTON -HAWKS DRILLING CO.

Well location, EAST CISCO SPRINGS UNIT #1-2, located as shown in the SW 1/4 SE 1/4 Section I, T20S, R23E, S.L.B. & M. Grand County, Utah.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIGUD NOTES OF ACTUAL SURVEYS WADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME AND THUS AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3154
STATE OF UTAN

UINTAM ENGINEERING 8 LAND SURVEYING PO. BOX Q -- 110 EAST - FIRST SOUTH VERNAL, UTAH - \$4026

SCALE	,,,	1000'		DATE	6/14	779
PARTY	GS	DS DW	RP	REFERENCES	GLO	Plat

FOLC BURTON - HAWK

	DEPARTMENT	OF THE NE		OMIL	UUI	•	5. LEASE DANGE ON ABB SERIAL NO.	•
APPLICATION	FOR PERMIT TO			N. OR P	LUG BA	ACK .	6. IF INDIAN, ALLOTTEE OF TRIBE NAME	• .
a. TYPE OF WORK		_					7. UNIT AGREEMENT NAME	-
DRIL D. TYPE OF WELL	LL 🗵	DEEPEN [J	PLU	JG BAC	K 📙 📜	Table Street	
OIL IT GAI	S OTHER		SIN ZON	IGLE	MULTIPLE ZONE	F 🗆 🖁	S. PARM OR LEASE NAME C	-
. NAME OF OPERATOR	9./1/	•				-	East Cisco Federal	_
Burton/Hawk	s, Inc Mark					J.	#1-2	
	asper, Wyoming,	82602				<u>:</u>	10. FIELD AND POOL, OR WILDCAT	-
. LOCATION OF WELL (Re	port location clearly and i	n accordance wit	h any St	tate requireme	nts.*)	3	Wildcat	_
	1530' FEL Sect	ion 1, T20	S, R2	23E, S.L.	B.& M.		AND SURVEY OR AREA	
At proposed prod. zone		•	•			194	Sec. 1, T20S-R23E	
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	ST TOWN OR POS	T OFFICE	*			12. COUNTY OR PARISH 13. STATE	-
9 miles Nor	th of Cisco, Ut	ah				<u></u>	Grand Utah	
5. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OF LEASE L	?			. of acres in	LEASE		of Acres assigned the Children of the Children	
(Also to nearest drig	unit line, if any)		l	OPOSED DEPTH		20. ROTA	ARY OR CABLE TOOLS	-
TO NEAREST WELL, DE OR APPLIED POR, ON THE	RILLING, COMPLETED,		2	290Ó 1		B	otary & EFF	
21. BLEVATIONS (Show who	ether DF, RT, GR, etc.)					2 % E	22. APPROX. DATE WORK WILL START	_
	round 4727' elev			<u>.</u>		7 - 5	July 15, 1979	
23.	P:	ROPOSED CASI	NG AND	CEMENTIN	G PROGRA	M		_
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	T001	SETTING :	DEPTH		QUANTITY OF CEMENT	
11'	8-5/8'' 4-1/2''	24.16 10.60		200' 2800'			surface	
7-7/8''	4-1/2			2000				_
	ļ			ł		1 I		
1. Drill	11' hole to 200'	, set 8-5,	/8'' ca	asing, ce	ement t	o suri	n R	
2. Drill	7-7/8" hole to a	approximate	ely 28	800'		ارد ارد ا	IN BUSINESS	
3. Run 4-	1/2" casing if p	roductive						
4. P&A per	r USGS instructi	on if dry	hole	•		1	FEB 25-1980	
1. 101 100						:		
		1 X -4-2		O:1 0 Co.	a Dond	No. 44	T ASED DIVISION OF	
Bond coverage provided under Nationwide Oil & Gas Bond No. 4414862 GAS & MINNES								
The second s The second secon								
				_1	data an 1	nwagant Dr	eductive sone and proposed new product	ive
IN ABOVE SPACE DESCRIP	BE PROPOSED PROGRAM: If o drill or deepen direction	proposal is to de ally, give pertine	epen or	on subsurface	locations a	ind measu	reductive sone and proposed new product red and true vertical depths. Give blowe	ut
preventer program, 4 a								
				-			1	<u>) </u>
SIGNED WILL STATE TO THE STATE OF THE STATE								
(This space for Federal or State office use) PERMIT NO. APPROVAL DATE FEB 21 1980 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								
PERMIT NO. APPROVAL DATE LD 21 1980								
(ORIG. SGO.) E. W. GUYNN DISTRICT ENGINEER REPEBBLE BEEFE								
CONDITIONS OF APPR	OVAL, IF ANY:							
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Utah State Oil + gas

FROM: :	DISTRICT GEOLOGIS ME, SALT LAKE CITY, UTAH	
TO . :	DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH	·
SUBJECT:	APD MINERAL EVALUATION REPORT	<u>LEASE NO. U-17049</u>
OPERATOR:	Burton/Hawks, Inc.	WELL NO. #1-2
LOCATION:		E., SIM
	Grand County, Utah	
l. Stratig	graphy: Operator projected tops appear reasonab encountered at other intervals. Well no. 1-6 T.20 S., R. 24 E., SIM gr 4695) reports initia from the base of the Cedar Mt. Formation 1780-	Bowers Federal (sw se sec. 6, 1 production of 215 MCFGPD
	•	
2. Fresh V		
	In the general area of the proposed test, fres water has been produced from the Morrison Form the Morrison are not expected to yield potable	ation. The rocks above
3. Leasab	le Minerals: None expected of any significance.	•
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· :		•
		•
•		
		× .
4. Addition	onal Logs Needed:	
	APD proposed logging program should be adequate	te.
	•	
•		
5. Potent	ial Geologic Hazards:	•
	None anticipated.	
,		
6. Refere	nces and Remarks: Within 1 1/2 miles of the Cisco Springs and A	gate KGS.
	Ref: USGS Map I-736, Utah State Engineer Tec	· ·
Signatur	e: Jung f. Allin Date:	: 07 - 11 - 79

United States Department of the Interior Geological Survey 8440 Federal Building Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. <u>U-17049</u>	
Operator Burton/Hawks, Inc Madex	Well No. <u>1-2</u>
Location 1112' FSL 1530' FEL Sec	1 T20S R23E
CountyGrandSta	te <u>Utah</u> Field <u>Wildcat</u>
Status: Surface Ownership Public	Minerals Federal
Joint Field Inspection Date July 20,	1979
Participants and Organizations:	
Rocky Curnutt	Bureau of Land Management
John Evans	U. S. Geological Survey
Dallas Galley	Casada, Dirt Contractor
Gene Stewart	Operator's Representative
•	
Related Environmental Analyses and Ref	erences:
(1) Book Mountain Unit Resource Analysi	is, Bureau of Land Management, Utah
(2)	
Analysis Prepared by: John T. Evans, Grand Junction	Environmental Scientist

Proposed Action:

On June 20, 1979, Burton Hawks filed an Application for Permit to Drill the No. 1-2 exploratory well, a 2900' oil and gas test of the Salt Wash Formation; located at an elevation of 4727' in the SW/4 SE/4, Sec. 1, T20S, R23E on Federal mineral lands and Public surface; lease No. U-17049. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Freshwater sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan is on file in the U.S.G.S. District Office in Salt Lake City, Utah, and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City, Utah.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 150' wide \times 350' long and a reserve pit 100' \times 100'. A new access road would be constructed 18' wide \times 0.7 mile long from an existing and improved road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad.

If production is established, plans for a gas flowline would be submitted to the appropriate agencies for approval. The anticipated starting date is July 1979 and duration of drilling activities would be about ten days.

<u>Location</u> and <u>Natural</u> <u>Setting</u>:

The proposed drillsite is approximately 9 miles NNE of Cisco, Utah, the nearest town. A fair dirt road runs to within 0.5 mile of the location. This well is a wildcat well in the Danish Wash gas and oil field.

Topography:

The proposed location is basically a low terrace or bench that trends east and west known as the Grassies. The ground slopes to the SE.

Geology:

The surface geology is Mancos. The soil is silty shales and gravels derived from Mancos parent material. No geologic hazards are known near the drill site. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep into the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The topsoils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinyon-juniper association is also present.

Topsoil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately two acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from

NOTE TO THE PROMPT OF

rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated. Operator would control dust from air drilling operations by misting or other acceptable methods.

Precipitation:

Annual rainfall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rainstorms. This type of storm is rather uncommon as the annual precipitation is around 8".

Winds are medium and gusty, occurring predominantly from west to east. Air mass inversions are rare. The climate is semiarid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

<u>Surface Water Hydrology:</u>

There are no live streams in general area. All drainages in immediate area are nonperennial streams and flow to the south and eventually into the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean up all spills or leaks.

<u>Groundwater Hydrology:</u>

Some minor pollution of groundwater systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed

to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of freshwater formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are of the salt-desert shrub types grading to the pinyon-juniper association several miles to the north.

Proposed action would remove about two acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

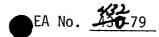
Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and are judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels



would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads.

The overall effect of oil and gas drilling and production activity is significant in Grand County but it is difficult to assess the environmental impact of a single well on state and/or national levels. However, if said well was to produce in sufficient quantity, additional development wells might be anticipated. This additional development, in turn, would lead to greater environmental and socioeconomic consequences.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternatives to the Proposed Action:

1) Not Approving the Proposed Permit--The Oil and Gas Lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies' supervision with rehabilitation planning

1...

reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration.

2) Minor relocation of the wellsite and access road would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Proposed Supplemental Conditions of Approval:

- 1) Dust from air drilling operation be controlled by acceptable methods.
- 2) Operation has option to use trash burn pit rather than portable trash cage. Trash pits should be fenced with fine mesh wire prior to drilling.
- 3) Low water crossing would be installed in lieu of culverts.
- 4) Sundry Notice would be required for approval of production facilities. Notice should include plat of proposed locations of facilities; size, grade or pipe and whether buried or surface laid, etc.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately two acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to freshwater aquifers and other geologic formations exists. distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplacable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to the surface water drainage system would exist through leaks and spills.

If well is a producer, other development wells would be anticipated with substantially greater environmental and economic impacts.

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2)(C).

Date

District Engineer
U. S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

his Syago

BURTON/HAWKS, INC. 10 POINT PROGRAM

Attachment to Form 9-331-C "Application to Drill, Deepen, or Plug Back".

GEOLOGIC NAME OF SURFACE FORMATION.

Cretacious Mancos

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Cretacious Dakota 1930 Javasic Morrison 2040 Salt Wash 2370 Entrada 2740 2760

ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR OTHER MINERAL BEARING FMS.

Water 100' Oil 2370

CASING PROGRAM:

200' 8 5/8 Production 4 1/2 10.60

BOP PROGRAM: (See attached Figure 3)

DRILLING FLUID:

Air

- AUXILIARY EQUIPMENT:
 - 1.
 - Kelly Cock Drill pipe float 2.
 - Stabbing valve on floor
- 8. TESTING, LOGGING, OR CORING:

Gamma Ray - neutron

ABNORMAL PRESSURE OR TEMPURATURE: 9.

none

STARTING DATE: 10.

July 15, 1979

Yours very truly,

BURTON/HAVAES, INC.

Rance Denton

Drilling Superintendent

Attachment: Figure 3 (BOP Stack Diagram)

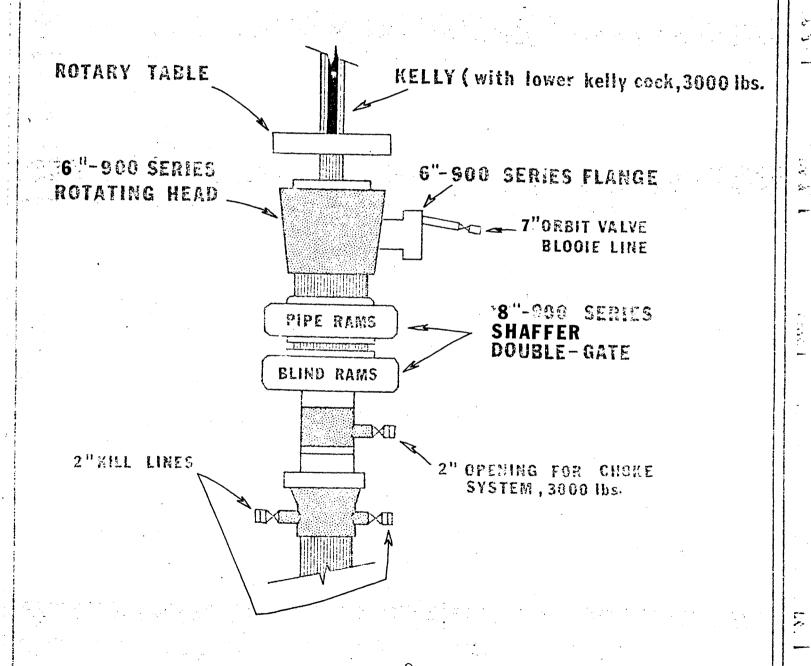
 α :

REW/grb

Burton Haws Drilling Co.

MADEX

BOP STACK



rig no. 3

NOT TO SCALE

BURTON HAWKS DRILLING CO.

13 Point Surface Use Plan

For

Well Location

East Cisco Springs Unit #1-2

Located In

Section 1, T20S, R23E, S.L.B.& M.

Grand County, Utah

Cities Springs Unit #1-2
Cities Springs Unit #1-2
Cities 1, T20S, R23E, S.L.B.& M.

STING ROADS

The attached Topographic Map "A".

To reach Burton Hawks Drilling Company, well location site East Cisco (1.8 Unit #1-1, located in the SW4 SE4 Section 1, T20S, R23E, 1.8 M., Grand County, Utah; proceed Northerly out of Cisco, Utah, on ald U.S. Highway 6, 5.4 miles to lits junction with a road to the Northerly proceed Northwesterly along this road 5 miles to its junction with a possed access road. (to be discussed in Item #2)

The Mighway mentioned above is a bituminous surfaced road, all other is in the area mentioned above are dirt roads constructed from the materials that are prevalent to the areas they are located in.

There is no anticipated construction on any portion of the above the decided roads. They will meet the necessary standards required to the decided an orderly flow of traffic during the drilling phase, completion that, and the production phase of this well at such time that production is stablished.

The roads that are required for access during the drilling phase, and production phase of this well, will be maintained the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing road in Lot 1, Section 1, \$208, R23E, S.L.B.& M. and proceeds in a Southwesterly direction 0.7 miles the proposed location site in said Section 1.

In order to facilitate the anticipated traffic flow necessary to drill light oduce this well, the following standards will be met:

The proposed access road will be an 18' crown road (9' either side of la menterline) with drain ditches along either side of the proposed road large it is determined necessary invorder to handle any runoff from normal objected conditions that are prevalent to this area.

Tack slopes along the cut areas of the road will be 1 to 1 slopes

The road will be centerline flagged prior to the commencement of truction.



2. PLANNED ACCESS ROAD - Continued

There will be 1 culvert required along this access road. This culvert will be placed under the direction of the B.L.M. and will meet their requirements. (See Topographic Map B)

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

If deemed necessary by the local governmental agencies or their representatives turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges or at intervals and locations that will provide the greatest sight distance. These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and outlet ends.

Any fences that are encountered along this road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

The terrain that this access road traverses is relatively flat.

The vegetation of this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses, and cacti with large areas that are devoid of vegetation.

3. EXISTING WELLS

See attached Topographic Map "B".

There are 2 wells within a one mile radius of this location site. (See attached Topographic Map "B" for location of these wells relative to the proposed location site.

3. EXISTING WELLS - Continued

There are no water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut in wells, injection wells, monitoring or observation wells for other resources located within a one mile radius of this location site.

4. LOCATION OF EXISTING & PROPOSED FACILITIES

At the present time there are no known Burton Hawks Drilling Company tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one mile radius of this location site.

In the event that production of this well is established the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities.

The area will be built if possible, with native materials and if these materials are not available then the necessary arrangements will be made to get them from private sources.

These areas will be built using bulldozers, graders, and workman crews to construct and place facilities.

It is not known at this time where production lines will be run. In the event production is established plans will be submitted to the appropriate agencies for approval before construction is begun.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "A".

Water to be used in the drilling of this well will be hauled from the Cisco, Utah, municipal water supply, this water will be hauled by truck over the roads described in Item #1 approximately 11 miles South of the location site.

In the event this is not a suitable source another source will be decided upon and all agencies involved will be notified.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

The native material that will be used in the construction of this location site and access road will consist of sandy-clay soil and sandstone and shale material gathered in actual construction of the road and location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable material such as cuttings, salts, chemicals etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on three sides. Upon completion of drilling the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted.

A portable chemical toilet will be supplied for human waste.

All produced oil from this well will be contained in the storage tank and will be sold. Water, if any, which is produced will be run into a reserve pit as required in the NTL-2B Regulations.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached location layout sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The area is a large valley known as the Grand Valley, which is formed by the Book Cliff Mountains to the North and numerous mesa's to the South with the Colorado River running through the valley floor. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

11. OTHER INFORMATION - Continued

The majority of the surrounding drainages are of a non-perennial nature with normal flow limited to the early spring and extremely rare heavy thunderstorms, or rain storms of high intensity that lasts over an extended period of time and are extremely rare in nature as the normal annual precipitation is only 8".

All drainages in the immediate area are non-perennial streams and flow to the South and are tributaries to the Colorado River.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces) and the visible geologic structure consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poor gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates, and shales).

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid region we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soils devoid of any growth in the areas away from and in the vicinity of non-perennial streams and along the areas that are formed along the edges of perennial streams, cottonwood, willows, tamarack, sagebrush, rabbitbrush, grasses and cacti can be found.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to this area.

The birds of the area are raptors, finches, ground sparrows, magpies, crows and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - (See Topographic Map "B")

East Cisco Springs #1-2 , sits on a relatively flat area below an area known as the Grassies.

11. OTHER INFORMATION - Continued

The geologic structure of the location is of Uinta Formation and consists of light brownish-gray clay (SP-CL) with some sandstone outcrops.

The ground slopes from the North through the location to the South at approximately a $2\,\%$ grade.

The location is covered with some sagebrush and grasses.

The total surface ownership effected by this location is owned by the B.L.M.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Rance Denton
Burton Hawks Drilling Co.
P.O. Box 359
Casper, Wyoming 82601

Telephone: 307-234-1593

13. CERTIFICATION

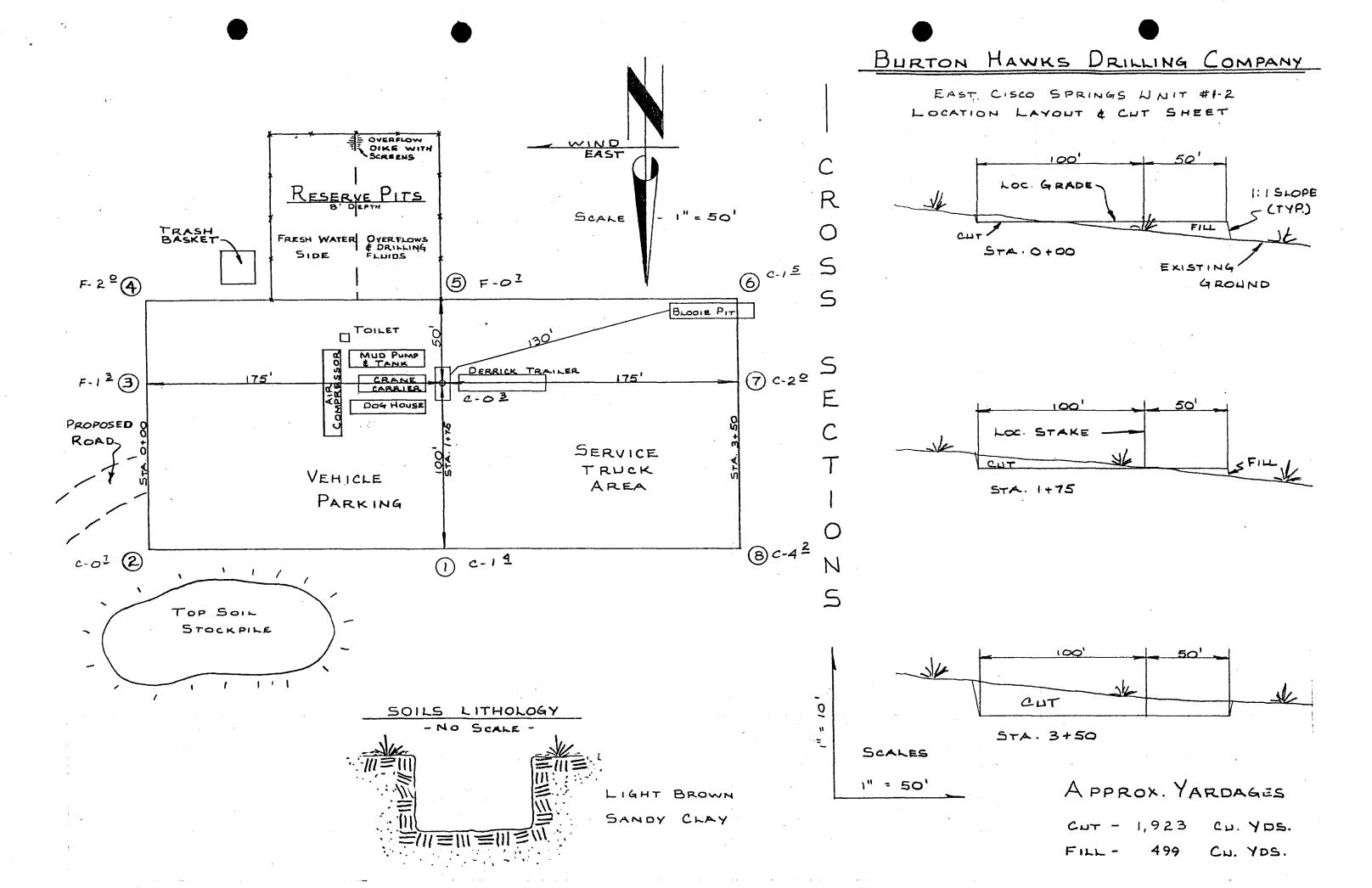
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operation proposed herein will be performed by Burton Hawks Drilling Co. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

June 19,1979

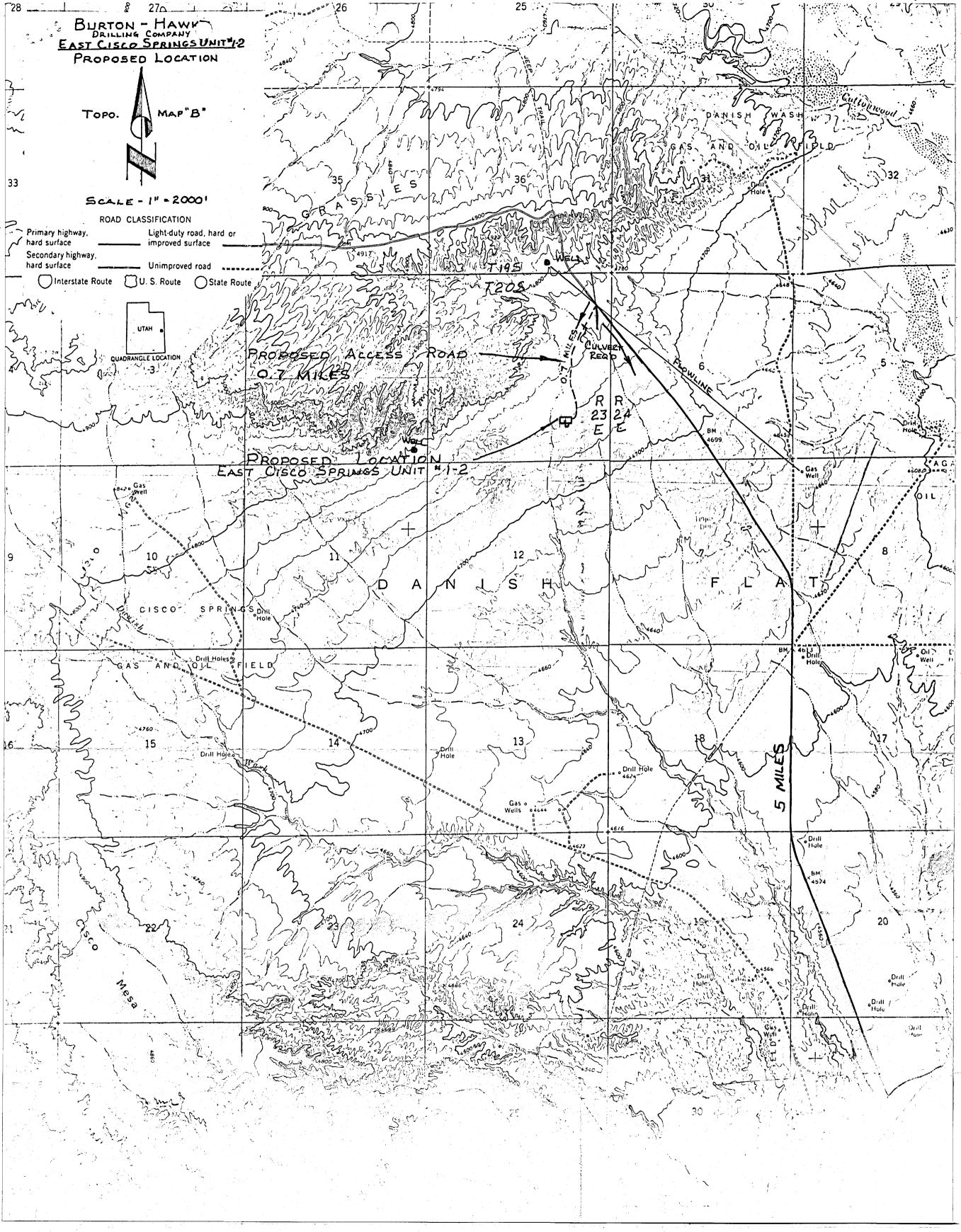
Rance Denton

Drilling Superintendent

ance







STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: <u>June</u> 21, 1979	
Operator: Burton / Hawks	Inc.
	ral 1-2
Location: Sec/T R	4
	/
File Prepared: //	Entered on N.I.D.: //
Card Indexed: //	Completion Sheet: $\sqrt{\frac{1}{\sqrt{1-1}}}$
VAPI Number: 4	3-019-30548
CHECKED BY:	
Administrative Assistant:	
Remarks:	
Petroleum Engineer:	
Remarks: Med Class of F. Ad	mms Well
Director:	
Remarks:	
	M.
INCLUDE WITHIN APPROVAL LETTER:	,
Bond Required: //	Survey Plat Required: //
Order No. 102-16 8-22-79	Surface Casing Change // to
Rule C-3(c), Topographic exception within a 660' radius	
0.K. Rule C-3 //	O.K. In Unit
Other:	

Letter Written/Approved

August 24, 1979

Burton/Hawks, Inc. Box 359 Casper, Wyoming 82602

Re: Well No. East Cisco Federal #1-2, Sec. 1,T. 20S, R. 23E., Grand County, Utah Well No. East Cisco Federal #1-3, Sec. 1,T. 20 S, R. 23E., Grand County, Utah

Gentlemen:

We would request that you examine your APO's on the above referenced wells to see if they meet the requirements of Cause No. 102-16 which amends Field Rules 1-2 and 2-2. A copy of the memorandum on the order issued by the Board of Oil, Gas and Mining has been included for your information. Should you wish to pursue these applications, please furnish additional information required under Cause No. 102-16 and if necessary, make application to appear before the Board.

If in view of the rule changes you choose to re-submit or withdraw your application, please inform this office so that we may know your decision and act upon it.

Sincerely,

DIVISION OF OIL, GASDAND MINING

Michael T. Minder Geological Engineer

MTH: b.tm

Enc.

cc

September 24, 1979

Burton/Haeks, Inc. Box 359 Casper, Wyoming 82602

> Re: Well No. East Cisco Federal 1-2 Sec. 1, T. 20S, R. 23E., Grand County, Utan

Dear Sir:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 102-16 dated August 22, 1979.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify one of the following:

MICHAEL T. MINDER Geological Engineer Office: 533-5771 Home: 876-3001 FRANK M. HAMNER Chief Petroleum Engineer Office: 533-5771 Home: 531-7827

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The RPI number assigned to this well is 43-019-30548.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Frank M. Hamner Chief Petroleum Engineer

/btm

cc: USGS

October 11, 1979

Burton/Hawks, Inc. P.O. Box 359 Casper, Wyoming 82602

Bell No. East Cisco Federal #1-3 Sec. 1, T. 20S, R. 23E., Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause 102-16 dated August 22, 1979. However, at this time, the approval granted for well No. Fast Cisco Federal 1-2 and East Cisco Federal 1-4 is recinded with further notice.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify one of the following:

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

FRANK M. HAMNER
Chief Petroleum Engineer
Office: 533-5771
Home: 531-7827

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30557.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael Tm Minder Geological Engineer

16tm

October 7, 1980

Burton/Hawks, Inc. Box 359 Casper, Wyoming 82602

RE: Well No. East Cisco Federal #1-4
Sec. 1, T. 20S, R. 23E.,
Grand County, Utah

Well No. East Cisco Federal #1-2 Sec. 1, T. 20S, R. 23E., Grand County, Utah

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

BARBARA HILL CLERK TYPIST

/bjh



First National Bank Building P. O. Box 359 Casper, Wyoming 82602 307/234/1593

October 27, 1980

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

> Re: Well No. East Cisco Federal #1-4 Sec. 1, T20S - R23E Grand County, Utah

> > Well No. East Cisco Federal #1-2 Sec. 1, T20S, R23E Grand County, Utah

Gentlemen:

In reference to the above mentioned wells, Burton/Hawks, Inc. - Madex is waiting on pipe line hookup to our well, East Cisco Federal #1-3. This will enable us to see the production of this well to determine if we will drill these two.

If more information is desired, please contact me at your convenience.

Sincerely,

BURTON/HAWKS, INC.

James M. Hitch Field Representative

JMH/ps

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DIVISION OF OIL, GAS & MINING

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